



Performance Bio NC Lite

High performance neat cutting oil

Description

Castrol Performance Bio NC Lite is a chlorine free, multi-metal compatible, high performance neat cutting oil, which is based on plant oil and synthetic hydrocarbon technology. Customer feedback* has highlighted low misting characteristics, robust oxidation stability and excellent cooling properties, which can help create productivity increases.

Application

Performance Bio NC Lite is designed for gear manufacturing and general cutting operation of ferrous and nonferrous metals.

• • suggested core application • possible application, please consult Castrol representative prior to use

	Cast Iron	Low-medium alloyed steel	High alloyed steel / nickel-chromium alloys	Titanium alloys	Aluminium alloys	Yellow metals
Honing/ Superfinishing	•	•	•	•	•	•
Grinding	•	•	•	•	•	•
Drilling	•	•		• •	• •	• •
Broaching	•	•		• •	• •	• •
Gear manufacturing	• •	• •		• •	• •	• •
General machining	• •	• •		• •	• •	• •

Advantages

- Customers have commented* favorably on the low misting and smoking characteristics. This helps to reduce oil consumption.
- High oxidation stability increases product lifetime and reduce oil consumption
- Plant oil based technology shows better cooling properties than traditional mineral oils. This characteristic could help support productivity increases
- Our chlorine free formulation can help reduce disposal costs
- Low odour and light colour help to improve the working environment
- Multi-metal compatibility provides opportunity for product consolidation

* Based on feedback received from our customers in the USA using Performance Bio NC fluids

Typical Characteristics

Properties	Standard	Unit	Data
Appearance	Visual		Light Yellow
Viscosity @ 40°C	DIN 51562 ASTM D 445	mm ² /s	25
Viscosity @ 100°F	ASTM D 445	SUS	137
Flashpoint COC	ISO 2592 ASTM D 92	°C/°F	215/420
Copper corrosion	ISO 2160 ASTM D 130	3 hr at 100 °C	1b

User Advice

Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Safety Data Sheet(SDS) are followed. SDSs are available upon request through your sales contact office, or via the internet at www.castrol.com This product should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment, return used oil to collection center.

Storage

To avoid product deterioration, keep the container/drum tightly sealed always. Prevent any frost and water ingress. Store it in a cool and dry place away from direct sunlight. It is preferable to store the product indoors always. For more details, please refer the product safety data sheet.

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